Proceedings

of the

Society

for

Experimental Biology and Medicine

INCLUDING THE FOLLOWING SECTIONS

DISTRICT OF COLUMBIA NORTHWESTERN
SOUTHEASTERN SOUTHWESTERN

May–September

VOLUME 176

New York

CONTENTS

SCIENTIFIC PROCEEDINGS, VOLUME 176

Seven hundred-forty-eighth issue, May 1984 1

Seven hundred-forty-ninth issue, June 1984 95

Seven hundred-fiftieth issue, July 1984 223

Seven hundred-fifty-first issue, September 1984 337

Author Index 518

Proceedings of The Society for Experimental Biology and Medicine, Vol. 176, No. 4, September 1984. Published monthly except August by Academic Press, Inc., 111 Fifth Avenue, New York, N.Y. 10003. Second class postage paid at New York, N.Y. and at additional mailing offices. 1984: Subscription per year $80.00 U.S.A. and Canada; $106.00 outside U.S.A. and Canada. All prices include postage and handling. Send notices of change of address to the Office of the Publisher at least 6–8 weeks in advance. Please include both the old and new addresses. POSTMASTER: Send all changes of address to *Proceedings of the Society for Experimental Biology and Medicine*, 111 Fifth Avenue, New York, N.Y. 10003. Copyright © 1984 by the Society for Experimental Biology and Medicine.

TABLE OF CONTENTS

ANNUAL REPORT FOR 1983 512

ACKNOWLEDGMENT 514

MINIREVIEW

The Lupus Anticoagulant — N. PERICO, F. PUSINERI, G. REMUZZI .. 337

BIOCHEMISTRY/NUTRITION

Effect of Albumin on the *in Vitro* Conjugation of Bilirubin by Rat Liver Microsomes — N. TAVOLONI, M. J. T. JONES, L. M. J. ISOLA, P. D. BERK 356

Strain Differences in Testes Degeneration, Myopathy, and the Lymphocyte Mitogen Response in Vitamin E-Deficient Rats — E. GABRIEL, A. BENDICH, L. J. MACHLIN 378

Radioimmunoassay of Bone Morphogenetic Protein in Serum: A Tissue-Specific Parameter of Bone Metabolism — M. R. URIST, R. T. HUDAK 472

Effects of Dietary Salt, Fat, and Carbohydrate on Fluid and Salt Consumption of Rats — R. M. THREATTE, M. R. QUINN 476

Cataract Formation following Limited Amino Acid Intake during Gestation and Lactation — G. E. BUNCE, J. L. HESS, D. DAVIS 485

CELLULAR AND ORGAN PHYSIOLOGY

Mineralization in Rat Metaphyseal Bone Exhibits a Circadian Stage Dependency — J. E. RUSSELL, B. GRAZMAN, D. J. SIMMONS 342

Nonalgebraic Interaction between Pressor and Depressor Reflexes in Dogs: Evidence for a Central Site of Action — P. M. LALLEY, J. E. KENDRICK, G. L. MATSON 384

On the Existence of Renal Vasodilator Nerves — H. HOLDAAS, G. F. DIBONA 426

Hypotensive Response to Prostacyclin and 6-keto-PGE_1 following Hepatectomy in the Rat — J. VAN DAM, R. B. STINGER, J. C. PENHOS, P. W. RAMWELL, P. A. KOT 438

Characterization of the Esterases of the Mitochondrial Fraction of Guinea Pig Cortical Renal Cells — G. NICOT, J.-P. VALETTE, J.-L. DUPUY, L. MERLE, G. LACHATRE, Y. NOUAILLE 467

DEVELOPMENT/GROWTH/AGING

Pulsed Electromagnetic Fields Increase the Rate of Rat Liver Regeneration after Partial Hepatectomy — V. OTTANI, M. G. MONTI, G. PICCININI, L. PERNECCO, P. ZANIOL, A. RUGGERI, B. BARBIROLI 371

Analysis of Metopirone-Induced Hypertrophy of Adrenals in Fetal Rats Encephalectomized *in Utero* — M. YAMAMOTO, K. ARISHIMA, Y. EGUCHI, K. MOCHIZUKI 403

Influence of the Major Histocompatibility Complex (*H-2*) on Glucocorticoid-Stimulated Pulmonary Surfactant Synthesis in Two Congenic Mouse Strains — L. S. HONIG, B. T. SMITH, H. C. SLAVKIN, H. G. DONAHUE 419

ENDOCRINOLOGY/METABOLISM

Intact and Carboxyterminal PTH Do Not Cross the Blood–Cerebrospinal Fluid Barrier — M. AKMAL, S. TUMA, D. A. GOLDSTEIN, R. PATTABHIRAMAN, L. BERNSTEIN, S. G. MASSRY 434

HOST-PARASITE INTERACTION/IMMUNOLOGY/MICROBIOLOGY/VIROLOGY

Muramyl Dipeptide-Induced Enhancement of Phagocytosis of Antibiotic Pretreated *Escherichia coli* by Macrophages — H. FRIEDMAN, G. WARREN 366

Interaction of *N*-Methyl-*N'*-nitro-*N*-nitrosoguanidine (MNNG) with Owl Monkey Kidney Cells in Enhancing the Yields of *Herpesvirus saimiri* (HVS) and Its Antigens — A. FAGGIONI, D. V. ABLASHI, J. DAHLBERG, G. ARMSTRONG, S. K. SUNDAR 407

Effect of Temperature on Suppressor Cells in Chicken Spleen Cell Cultures — B. S. BHOGAL, D. S. CHI, G. J. THORBECKE 414

ONCOLOGY/PATHOLOGY/RADIOBIOLOGY

Depression of *in Vivo* Clearance Function of Hepatic Macrophage Complement Receptors following Thermal Injury — B. G. CUDDY, D. J. LOEGERING, F. A. BLUMENSTOCK 443

Effects of Three Feeding Schedules on Tumor and Host of Lewis Lung Carcinoma-Bearing Mice — W. CHAN, S. MCELHANON, A. M. KAPLAN, W. L. BANKS, JR. 460

Early Nuclear Structural Changes of Transformed Human Amniotic Cells (WISH) in Presence of Type IV Collagen Detected by the Nuclear Refringency Assay — J. GERFAUX, B. MACÉ, F. CHANY-FOURNIER, A. POMPIDOU 490

PHARMACOLOGY/TOXICOLOGY

In Vitro Response of Hepatic Lysosomes to Endogenous and Exogenous Cationic Compounds — J. H. POWELL, M. M. REIDENBERG 346

Dopaminergic and Cholinergic Muscarinic Receptor Effects of L-Alphacetylmethadol (LAAM) and Its Metabolites — A. E. LANGLEY, S. G. SMITH, R. L. ZEID 350

The Tissue-Specific Accumulation of Hepatic Zinc Metallothionein following Parenteral Iron Loading — C. C. MCCORMICK 392

Effect of Nolinium Bromide on Vascular Smooth Muscle — R. R. BROOKS, S. M. JONES, A. F. MOORE 452

RAPID COMMUNICATIONS

Isolation and Culture of Human Intestinal Smooth Muscle Cells — M. F. GRAHAM, R. F. DIEGELMANN, C. O. ELSON, K. N. BITAR, H. P. EHRLICH 503

Ethanol Enhances *de Novo* Synthesis of High Density Lipoprotein Cholesterol — J. E. CLUETTE, J. J. MULLIGAN, R. NORING, K. DOYLE, J. HOJNACKI 508

AUTHOR INDEX FOR VOLUME 176 518

The Subject Index for Volume 176 will appear in the December 1984 issue as part of a cumulative index for the year 1984.